

Claim Amendments

Amend the claims as follows:

1. (original) A method of measuring discrete incremental feedback from motion systems that create feedback pulses, the method comprising:
 - establishing a minimum feedback pulse sampling period;
 - accumulating feedback pulses during a sampling period;
 - upon the first feedback pulse after the minimum feedback pulse sampling period, ending the current sampling period and beginning the next sampling period; and
 - determining the quantity of feedback pulses accumulated during the current sampling period.
2. (original) The method of measuring discrete, incremental feedback from motion systems of claim 1 wherein the minimum feedback pulse sampling period is comprised of one or more periods of a clock signal.
3. (original) The method of measuring discrete, incremental feedback from motion systems of claim 2 wherein the period of the clock signal is less than the shortest period between feedback pulses.
4. (original) The method of measuring discrete, incremental feedback from motion systems of claim 3 wherein the period of the clock signal is less than or equal to one-tenth the shortest period between feedback pulses.
5. (original) The method of measuring discrete, incremental feedback from motion systems of claim 2 wherein the minimum feedback pulse sampling period is a multiple of the clock signal period.

6. (original) The method of measuring discrete, incremental feedback from motion systems of claim 2 wherein sampling periods can begin and end only concurrently with a clock signal.
7. (original) The method of measuring discrete, incremental feedback from motion systems of claim 6 further comprising calculating estimated motion velocity by dividing the number of feedback pulses accumulated during a sampling period by the time period of such sampling period.
8. (original) The method of measuring discrete, incremental feedback from motion systems of claim 7 wherein the time period of such sampling period is determined by counting the number of clock signals occurring during the sampling period.
9. (canceled)